CONTENTS

Preface ix
Thermodynamic behavior of fluid mixtures in the critical region
G.X. Jin, S. Tang (College Park, MD USA) and J.V. Sengers (Gaithersburg, MD, USA) 1–10
Tricritical lines and multiphase equilibria in quaternary mixtures
B.F. Kohse and R.A. Heidemann (Calgary, Alb., Canada) 11–22
The modified Leung–Griffiths model of vapor–liquid equilibrium: extended scaling and binary mixtures of dissimilar fluids
J.J. Lynch and J.C. Rainwater (Boulder, CO, USA) 23–37
A parametric crossover model for fluids in the critical region
J. Luettmer-Strathmann, S. Tang and J.V. Sengers (College Park, MD, USA) 39–52
Contribution of fluctuations to thermal properties of fluids with attractive forces of limited range: theory compared with P-ρ-T and C_v data for argon
J.A. White (Washington, DC, USA) 53–64
A new cubic equation of state
C.H. Twu, J.E. Coon and J.R. Cunningham (Fullerton, CA, USA) 65–79
A new equation of state for polar and nonpolar pure fluids
V. Brandani, G. Del Re, G. Di Giacomo (L'Aquila, Italy) and P. Brandani (Monrovia, CA, USA) 81–87
Modelling phase equilibria using an equation of state incorporating association
A. Anderko (Berkeley, CA, USA) 89–103
Statistical-mechanical basis for accurate analytical equations of state for fluids
Y. Song and E.A. Mason (Providence, RI, USA) 105–115
Strong principle of corresponding states: reduction of a p-v-T surface to a line
G. Ihm, Y. Song and E.A. Mason (Providence, RI, USA) 117–125
Calculation of effective hard sphere diameters from perturbation theory
S. Gormsen and J.M. Mollerup (Lyngby, Denmark) 127–135
Correlation of heat capacities of liquids as a function of temperature
V. Růžička, M. Zábranský, A. Malijevsky (Prague, Czechoslovakia) and E.S. Domalski (Gaithersburg, MD, USA) 137–148
Quasi-isochoric p-ρ-T measurements, 2nd virial coefficient and vapor pressure of n-hexane
E. Bich, T. Lober and J. Millat (Rostock, Germany) 149–161
Monte Carlo simulations of adsorption equilibria at states near bulk fluid phase boundries
Y. Fan, J.E. Finn and P.A. Monson (Amherst, MA, USA) 163–183
A critical study of simulations of the Lennard-Jones liquid–vapor interface
C.D. Holcomb, P. Clancy, S.M. Thompson and J.A. Zollweg (Ithaca, NY, USA) 185–196
The capillary hysteresis and its properties for unsaturated wet porous media
B.-.X. Wang (Beijing, China) and W.-.P. Yu (Nanjing, China) 197–212

Comparison of interfacial tension and capillary constant for argon + krypton, CH_4 + krypton, and C_2H_6 + krypton using two independent methods of measurement
C.D. Holcomb and J.A. Zollweg (Ithaca, NY, USA) 213–224
Critical adsorption at the liquid / vapour surface of multicritical mixtures
B.M. Law, C.M. Sorenson and F. Zhou (Manhattan, KS, USA) 225–233
Asymptotic behaviour of the thermal conductivity of a binary fluid near the plait point
R. Mostert (Amsterdam, Netherlands) and J.V. Sengers (College Park, MD, USA) 235–244
Correlation and prediction of dense fluid transport coefficients
M.J. Assael (Thessaloniki, Greece), J.H. Dymond (Glasgow, UK), M. Papadaki, (Thessaloniki, Greece) and P.M. Patterson (Glasgow, UK) 245–255
A generalized viscosity equation for liquid hydrocarbons
A.K. Mehrotra (Calgary, Alb., Canada) 257–268
Vibrating wire viscometry on liquids at high pressure
M.J. Assael, (Thessaloniki, Greece) and W.A. Wakeham (London, UK) . . . 269–285
Viscosity coefficients of binary n-heptane + n-alkane mixtures
M.J. Assael, (Thessaloniki, Greece), J.H. Dymond, (Glasgow, UK) and M. Papadaki (Thessaloniki, Greece) 287–297

Author index 299